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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/766,246 NIELSEN ET AL. Office Action Summary Examiner Art Unit HIEU HOANG 2452 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 26 August 2010. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-37 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-37 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/SB/08)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

This office action is in response to the communication filed on 04/12/2010.

Claims 1-37 are pending.

Response to Arguments

Applicant's arguments have been fully considered but are moot in view of new grounds of rejection.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112: The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 11-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims recite "the instructions when executed enable the processor to allow at least two of the two or more remote systems based on a selection scheme." It is understood that "to allow" means to assign the task to a remote system. However, that the processor assigns task to a system "based on a selection scheme" such as processing speed (claim 13) is contradictory to claim 10 which recites " assign, based on a determination by the two or more remote systems that at least one or more of the resource requirements is satisfied, the task from the task list to a first remote

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system to respond to the indication that the task is available for processing, wherein the task is assigned without performing a comparison of current operational capabilities of the two or more remote systems to each other." It is believed that assigning task without comparing of remote systems' performances and assigning tasks by comparing of remote systems' performances are two distinct embodiments that contradict one another. Applicant is requested to cite portions of the specification where the two embodiments can be used together.

6. Claims 6-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention for the same rationale as in claims 11-15 (see claims 6-7, "selection scheme" and "processing speed"). Correction is required.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1, 3-7, 9-15, 17-19, 28, 29 and 31-34 are rejected under 35
 U.S.C. 103(a) as being unpatentable over Cajolet (US 6,192,388), in view of Johnson et al. (US 2002/0133593, hereafter Johnson), and Slater et al. (US

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7,590,746, hereafter Slater) and what was known in the art (Official Notice or ON)

9. For claim 1, Cajolet discloses a method, comprising:

indicating to two or more remote systems in a distributed data processing system that a task, in a task list, is available for processing based on a distribution list (fig. 6 step 100, assisting computers receive request for assistance on task processing, col. 9 lines 63-64, fig. 7 item 136, list of assistant computers, col. 3 lines 17-21, task portion queue or list); wherein an indication specifies at least one resource requirement (col. 8 lines 24-36, a job servicing request has indication of software required to do the job)

receiving at least one response from each of at least two of the two or more remote systems capable of performing the task responsive to receiving the indication (fig. 6 step 104-106, assisting computers send back response with computer characteristics that task can be done):

wherein the at least one response is based on a determination by the two or more remote systems that the at least one resource requirement is satisfied (col. 8 lines 24-36, checking whether the computer that received the request can satisfy the request's requirement such as software needed)

assigning the task from the task list to a remote system that sent the response (fig. 6 steps 110-112, col. 2 line 63-col. 3 line 11, assigning task to assisting computers participate in distributed task processing, col. 8 lines 43-53.

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dispatcher receiving responses from assisting computers and selecting one to assign the task to).

Cajolet does not disclose each of the responding remote system has reserved at least a portion of its respective resources for performing the task based at least in part on the at least one resource requirement.

Johnson discloses each of the responding remote system has reserved at least a portion of its respective resources for performing the task based at least in part on the at least one resource requirement (fig. 5, system receiving request for content, checks for required resources, and reserves its resources to process the request)

It would have been obvious to one skilled in the art at the time of the invention was made to reserve resources as taught by Johnson to the invention of Cajolet when a system has determined it has sufficient resources to process a task. The motivation would be to lock down resources when it is still available because resources are dynamically changes with respect to time.

Cajolet-Johnson does not explicitly disclose assigning the task from the task list to a remote system of the at least two remote systems that responds first to the indication that the task is available for processing, and wherein assigning the task is performed without comparing operational capabilities of the at least two remote systems to each other.

However, Slater discloses assigning a task to a remote system of the at least two remote systems that responds first to a task indication, and wherein assigning the task is performed without comparing operational capabilities of the

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at least two remote systems to each other (col. 1 I. 50-55, a load balancing technique of a director server assigning a request service to a server among a plurality of servers which replied fastest to an investigatory signal without comparing the servers' performance attributes)

It would have been obvious for one skilled in the art to combine the teachings of Cajolet, Johnson and Slater to assign task to a first available remote system or the first remote system to respond so that tasks can be assigned to a remote system that replies fastest (Slater, col. 1 I. 50-55).

Cajolet-Johnson-Slater does not disclose the task is a compilation task.

However, Official Notice is taken that distributing compilation tasks is known at the time of the invention (see e.g., Sundararajan et al., US 6,487,577, abstract).

Therefore, it would have been obvious for one skilled in the art at the time of the invention to combine the teachings of Cajolet, Slater and what has been known in the art to assign compilation tasks to the first available workstation or assisting computer to implement a basic workload algorithm (Slater, background art, second par.).

10. For claim 3, Cajolet-Johnson-Slater-ON further discloses indicating to the two or more remote systems comprises indicating a threshold criterion that the two or more remote systems should satisfy, and wherein receiving the at least one response comprises receiving the at least one response from the two or more remote systems that satisfy the threshold criterion (Cajolet, fig. 8, col. 11

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lines 11-60, thresholds that assistant processing computers have to pass in order to satisfy the requirement of the tasks).

- 11. For claim 4, Cajolet-Johnson-Slater-ON further discloses indicating the threshold criterion comprises indicating at least one of a preselected processing speed, memory size, and network speed for the one or more remote systems (Cajolet, fig. 8, col. 11 lines 11-60).
- 12. For claim 5, Cajolet-Johnson-Slater-ON further discloses receiving the at least one response comprises receiving configuration information associated with the two or more remote systems (Cajolet, col. 8 lines 38-40, sending configuration to task dispatcher); and wherein the first remote system to respond refers to at least one of a first remote system to generate a response and a first remote system to have its response received (Cajolet, col. 8 lines 43-52, responses received from remote systems at a problem dispatcher, Slater, [0021], selection of the first available system to assign task to)
- 13. For claim 6, Cajolet-Johnson-Slater-ON further discloses receiving the configuration information comprises receiving information including at least one of a processing speed, memory size, network speed, and load level associated with the one or more remote systems (Cajolet, fig. 8, col. 11 lines 11-60).

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14. For claim 7, Cajolet-Johnson-Slater-ON further discloses allowing at least one of the two or more remote systems to perform the task comprises allowing at least one of the two or more remote systems to perform the task based on a selection scheme (Cajolet, col. 8 lines 43-53, selection of assistant computers), wherein the selection scheme comprises at least one of allowing a remote system that responds first to perform the task (Slater, select a first available call taker workstation to process the next call) and allowing a remote system to perform the compilation task based on the received configuration information (Cajolet, col. 8 lines 39-53, selection of assistant computer based on its configuration).

- 15. For claim 9, Cajolet-Johnson-Slater-ON further discloses the act of indicating comprises indicating that the compilation task is available for processing (Cajolet, fig. 6 steps 100-102, receive request for processing of an available task).
- 16. For claim 10, Cajolet discloses an article comprising one or more machine-readable storage media containing instructions that when executed enable a processor to:

indicate to two or more remote systems in a distributed data processing system that a task in a task list is available for processing based on a list identifying the remote systems (fig. 6 step 100, assisting computers receive request for assistance on task processing, col. 9 lines 63-64, list of assistant

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computers, col. 3 lines 17-21, task portion queue or list); wherein the indication specifies at least one resource requirement (col. 8 lines 24-36, a job servicing request has indication of software required to do the job)

assign the task from the task list to a remote system of the two or more remote systems to a remote system that responds to the indication that the task is available for processing (fig. 6 steps 110-112, col. 2 line 63-col. 3 line 11, assigning task to assisting computers participate in distributed task processing; col. 8 lines 43-53, dispatcher receiving responses from assisting computers and selecting one to assign the task to); wherein assigning is based on a determination by the one or more remote systems that the at least one resource requirement is satisfied (col. 8 lines 24-36, checking whether the computer that received the request can satisfy the request's requirement such as software needed)

Cajolet does not disclose each of the two or more remote systems has reserved at least a portion of its respective resources for performing the task based at least in part on the at least one resource requirement.

Johnson discloses each of the two or more remote systems has reserved at least a portion of its respective resources for performing the task based at least in part on the at least one resource requirement (fig. 5, system receiving request for content, checks for required resources, and reserves its resources to process the request)

It would have been obvious to one skilled in the art at the time of the invention was made to reserve resources as taught by Johnson to the invention

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of Cajolet when a system has determined it has sufficient resources to process a task. The motivation would be to lock down resources when it is still available because resources are dynamically changes with respect to time.

Cajolet-Johnson does not explicitly disclose assigning the task from the task list to a first remote system to respond to the indication, and wherein assigning the task is performed without a comparison of current operational capabilities of the two or more remote systems to each other.

However, Slater discloses assigning a task to a remote system of the at least two remote systems that responds first to a task indication, and wherein assigning the task is performed without a comparison of current operational capabilities of the two or more remote systems to each other (col. 1 l. 50-55, a load balancing technique of a director server assigning a request service to a server among a plurality of servers which replied fastest to an investigatory signal without comparing the servers' performance attributes)

It would have been obvious for one skilled in the art to combine the teachings of Cajolet, Johnson and Slater to assign task to a first available remote system or the first remote system to respond so that tasks can be assigned to a remote system that replies fastest (Slater, col. 1 I. 50-55).

Cajolet-Johnson-Slater does not disclose the task is a compilation task.

However, Official Notice is taken that distributing compilation tasks is known at the time of the invention (see e.g., Sundararajan et al., US 6,487,577, abstract).

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Therefore, it would have been obvious for one skilled in the art at the time of the invention to combine the teachings of Cajolet, Johnson, Slater and what has been known in the art to assign compilation tasks to the first available workstation or assisting computer to implement a basic workload algorithm (Slater, background art, second par.).

- 17. For claim 11, Cajolet-Johnson-Slater-ON further discloses the task is a compilation task (Cajolet, col. 9 lines 6-9, a rendering task composing of many task portions) and wherein the instructions when executed enable the processor to allow at least two of the two or more remote systems based on a selection scheme (Cajolet, col. 8 lines 43-53).
- 18. For claim 12, Cajolet-Johnson-Slater-ON further discloses the instructions when executed enable the processor to allow that remote system which responds first to perform the task (Slater, [0021] lines 1-7, select a first available call taker workstation to process the next call).
- 19. For claim 13, Cajolet-Johnson-Slater-ON further discloses the instructions when executed enable the processor to allow the remote system having at least one of a specified processing speed (Cajolet, fig. 7 steps 130, 132) and a desirable past performance to perform the task, wherein the past performance comprises at least one of a past task and a project compilation basis (Cajolet,

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col. 10, lines 26-49, past performance of done tasks and undone tasks that were interrupted). ON discloses compilation task as in claim 10.

- 20. For claim 14, Cajolet-Johnson-Slater-ON further discloses the instructions when executed enable the processor to allow two or more of remote systems to perform the task in response to determining that a number of responding remote systems exceed a number of available tasks (Cajolet, col. 9 lines 5-15, a plurality of assistant computers to process portions of a same task).
- 21. For claim 15, Cajolet-Johnson-Slater-ON further discloses the instructions when executed enable the processor to receive responses from at least one of the two or more the remote systems, wherein the response includes configuration information associated with the one or more remote systems (Cajolet, col. 8 lines 38-42, responses with computer characteristics).
- 22. For claim 17, Cajolet-Johnson-Slater-ON further discloses the instructions when executed enable the processor to receive results from the at least one remote system that is allowed to perform the task (Cajolet, fig. 5, send render task and receive finished render task).
- 23. For claim 18, the claim is rejected for the same rationale as in claim 10.
- 24. For claim 19, Cajolet discloses an apparatus, comprising:

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an interface adapted to communicate with two or more remote systems; and

a control unit communicatively coupled to the interface, the control unit adapted to:

indicate to the two or more remote systems in a distributed data processing system that a task in a task list is available for processing based on a distribution list identifying the two or more remote systems (fig. 6 step 100, assisting computers receive request for assistance on task processing, col. 9 lines 63-64, list of assistant computers, col. 3 lines 17-21, task portion queue or list); and wherein the indication specifies at least one resource requirement (col. 8 lines 24-36, a job servicing request has indication of software required to do the job)

receive at least one response from the two or more remote systems capable of performing the task based on the indication (fig. 6 step 104-106, assisting computers send back response with computer characteristics that task can be done); wherein the at least one response is based on a determination by the two or more remote systems that the at least one resource requirement is satisfied (col. 8 lines 24-36, checking whether the computer that received the request can satisfy the request's requirement such as software needed); and

assign the task from the task list to a remote system of the two or more remote systems to respond to the indication that the task is available for processing (fig. 6 steps 110-112, col. 2 line 63-col. 3 line 11, assigning task to assisting computers participate in distributed task processing; col. 8 lines 43-53,

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dispatcher receiving responses from assisting computers and selecting one to assign the task to)

Cajolet does not disclose each responding remote system has reserved at least a portion of its respective resources for performing the task based at least in part on the at least one resource requirement.

Johnson discloses each responding remote system has reserved at least a portion of its respective resources for performing the task based at least in part on the at least one resource requirement (fig. 5, system receiving request for content, checks for required resources, and reserves its resources to process the request)

It would have been obvious to one skilled in the art at the time of the invention was made to reserve resources as taught by Johnson to the invention of Cajolet when a system has determined it has sufficient resources to process a task. The motivation would be to lock down resources when it is still available because resources are dynamically changes with respect to time.

Cajolet-Johnson does not explicitly disclose the task is assigned without comparing operational capabilities of the at least two remote systems to each other.

However, Slater discloses assigning a task to a remote system of the at least two remote systems that responds first to a task indication, and wherein assigning the task is performed without comparing operational capabilities of the at least two remote systems to each other (col. 1 l. 50-55, a load balancing technique of a director server assigning a request service to a server among a

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plurality of servers which replied fastest to an investigatory signal without comparing the servers' performance attributes)

It would have been obvious for one skilled in the art to combine the teachings of Cajolet, Johnson and Slater to assign task to a first available remote system or the first remote system to respond so that tasks can be assigned to a remote system that replies fastest (Slater, col. 11. 50-55).

Cajolet-Johnson-Slater does not disclose the task is a compilation task.

However, Official Notice is taken that distributing compilation tasks is known at the time of the invention (see e.g., Sundararajan et al., US 6,487,577, abstract).

Therefore, it would have been obvious for one skilled in the art at the time of the invention to combine the teachings of Cajolet, Slater and what has been known in the art to assign compilation tasks to the first available workstation or assisting computer to implement a basic workload algorithm (Slater, background art, second par.).

- 25. For claim 28, Cajolet-Johnson-Slater-ON further discloses the control unit is adapted to identify the task that is available for processing in a queue that is accessible by two or more of the remote systems (Cajolet, fig. 7 steps 146-148, continuing to new task portion in a queue).
- For claim 29, the claim is rejected for the same rationale as in claims 1 and/or 19.

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27. For claim 31, Cajolet-Johnson-Slater-ON further discloses at least one of the one or more remote systems is adapted to: detect an indication from the client system that a compilation task is available for processing (Cajolet, fig. 6 step 100, assisting computers receive request for assistance on task processing); determine if the at least one remote system is capable of processing the compilation task (Cajolet, fig. 6 step 104-106, assisting computers send back response with computer characteristics that task can be done); and process the compilation task for the client system in response to determining that at least one remote system is capable of processing the compilation task (Cajolet, fig. 6 steps 110-112, assisting computers participate in distributed task processing).

28. For claim 32, Cajolet discloses a method, comprising:

detecting an indication from a client system to process one or more tasks, wherein the indication specifies at least one resource requirement (fig. 6 step 100, assisting computers receive request for assistance on task processing);

determining if a remote system of the plurality of remote systems that detects the indication is capable of processing at least one of the one or more tasks in response to detecting the indication from the client system and responding first to the indication, wherein responding is performed by the remote system (fig. 6 step 104-106, assisting computers send back response with computer characteristics that task can be done); and

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processing the at least one task for the client system in response to at least one or more of the tasks from the client system being assigned to a remote system (fig. 6 steps 110-112, assisting computers participate in distributed task processing, assigning task to the best computer);

Cajolet does not disclose reserving one or more resources of the remote system in response to determining that the remote system is capable of processing the at least one of the one or more compilation task, wherein the reserving takes place at the remote system.

Johnson discloses reserving one or more resources of the remote system in response to determining that the remote system is capable of processing the at least one of the one or more compilation task, wherein the reserving takes place at the remote system (fig. 5, system receiving request for content, checks for required resources, and reserves its resources to process the request)

It would have been obvious to one skilled in the art at the time of the invention was made to reserve resources as taught by Johnson to the invention of Cajolet when a system has determined it has sufficient resources to process a task. The motivation would be to lock down resources when it is still available because resources are dynamically changes with respect to time.

Cajolet-Johnson does not explicitly disclose the task is assigned without comparing operational capabilities of the remote system and the plurality of remote systems.

However, Slater discloses assigning a task to a remote system of the at least two remote systems that responds first to a task indication, and wherein

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assigning the task is performed without comparing operational capabilities of the at least two remote systems to each other (col. 1 I. 50-55, a load balancing technique of a director server assigning a request service to a server among a plurality of servers which replied fastest to an investigatory signal without comparing the servers' performance attributes)

It would have been obvious for one skilled in the art to combine the teachings of Cajolet, Johnson and Slater to assign task to a first available remote system or the first remote system to respond so that tasks can be assigned to a remote system that replies fastest (Slater, col. 11. 50-55).

Cajolet-Johnson-Slater does not disclose the task is a compilation task.

However, Official Notice is taken that distributing compilation tasks is known at the time of the invention (see e.g., Sundararajan et al., US 6,487,577, abstract).

Therefore, it would have been obvious for one skilled in the art at the time of the invention to combine the teachings of Cajolet, Slater and what has been known in the art to assign compilation tasks to the first available workstation or assisting computer to implement a basic workload algorithm (Slater, background art, second par.).

 For claim 33, Cajolet-Johnson-Slater-ON further discloses providing results of the processing to the client system (Cajolet, fig. 5, send render task).

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30. For claim 34, Cajolet-Johnson-Slater-ON further discloses the processing comprises accessing a queue associated with the client system and determining the compilation task to process (Cajolet, fig. 7 steps 146-148, continuing to new task portion in a queue).

- Claims 35 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cajolet in view of Johnson and Slater.
- 32. For claim 35, Cajolet discloses a method, comprising:

indicating to two or more remote systems in a distributed data processing system that a task in a task list is available for processing (fig. 6 step 100, assisting computers receive request for assistance on task processing, col. 3 lines 17-21, task portion queue or list); and wherein the indication specifies at least one resource requirement (col. 8 lines 24-36, a job servicing request has indication of software required to do the job)

receiving at least one response from the two or more remote systems capable of performing the task responsive to receiving the indication (fig. 6 step 104-106, assisting computers send back response with computer characteristics that task can be done); wherein the at least one response is based on a determination by the two or more remote systems that the at least one resource requirement is satisfied (col. 8 lines 24-36, checking whether the computer that

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received the request can satisfy the request's requirement such as software needed); and

assigning the task from the task list to a first remote system to respond to the indication that the task is available for processing (fig. 6 steps 110-112, col. 2 line 63-col. 3 line 11, assigning task to assisting computers participate in distributed task processing; col. 8 lines 43-53, dispatcher receiving responses from assisting computers and selecting one to assign the task to)

Cajolet does not disclose each responding remote system has reserved at least a portion of its respective resources for performing the task based at least in part on the at least one resource requirement.

Johnson discloses each responding remote system has reserved at least a portion of its respective resources for performing the task based at least in part on the at least one resource requirement (fig. 5, system receiving request for content, checks for required resources, and reserves its resources to process the request)

It would have been obvious to one skilled in the art at the time of the invention was made to reserve resources as taught by Johnson to the invention of Cajolet when a system has determined it has sufficient resources to process a task. The motivation would be to lock down resources when it is still available because resources are dynamically changes with respect to time.

Cajolet-Johnson does not explicitly disclose the task is assigned without comparing operational capabilities of the at least two remote systems to each other.

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However, Slater discloses assigning a task to a remote system of the at least two remote systems that responds first to a task indication, and wherein assigning the task is performed without comparing operational capabilities of the at least two remote systems to each other (col. 1 I. 50-55, a load balancing technique of a director server assigning a request service to a server among a plurality of servers which replied fastest to an investigatory signal without comparing the servers' performance attributes)

It would have been obvious for one skilled in the art to combine the teachings of Cajolet, Johnson and Slater to assign task to a first available remote system or the first remote system to respond so that tasks can be assigned to a remote system that replies fastest (Slater, col. 11. 50-55).

- 33. For claim 37, Cajolet-Slater further discloses the task is at least one of a compilation task, a video processing task, audio processing task, image processing task, encryption task, and decryption task (Cajolet, fig. 5, 3D image rendering task)
- 34. Claims 16, 30 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cajolet-Johnson-Slater, in view of what has been known in the art, and in view of Hinni et al. (US 2007/0011226, hereafter Hinni)
- 35. For claim 36, Cajolet-Slater further discloses the distributed system is a distributed system, and wherein indicating comprises indicating to the two or more remote systems that a task is available for processing (fig. 6 step 100,

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assisting computers receive request for assistance on task processing); wherein the indication was based on a distribution list identifying the two or more remote systems (fig. 7, 136, list of assistants), and further wherein receiving the at least one response comprises receiving the at least one response from the two or more remote systems capable of performing the task responsive to receiving the indication (fig. 6 step 104-106, assisting computers send back response with computer characteristics that task can be done)

Cajolet-Slater does not disclose a distributed compilation system with compilation tasks.

However, Official Notice is taken that distributing compilation tasks is known at the time of the invention (see e.g., Sundararajan et al., US 6,487,577, abstract)

Cajolet-Johnson-Slater-ON further discloses the client transmitting task request to a plurality remote computers (Cajolet, fig. 7 steps 123, 126). Cajolet-Johnson-Slater-ON does not explicitly disclose the request from the client system was a multicast request.

However, Hinni discloses the same ([0079] lines 3-5, multicast task request to multiple task handlers)

Therefore, it would have been obvious for one skilled in the art at the time of the invention to combine the teachings of Cajolet-Johnson-Slater and ON and Hinni to multicast task request to a plurality of computers since multicasting is an efficient method of transmitting same information to multiple receivers (as compared to, e.g., unicasting).

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- 36. Claims 16 and 30 are rejected for the same rationale as in claim 36.
- Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over
 Cajolet-Johnson-Slater-ON as applied to claim 1 above, and further in view
 of Harper et al. (US 2002/0087612, hereafter Harper).
- 38. For claim 2, Cajolet-Johnson-Slater-ON further discloses the distribution list comprises destination addresses associated with the two or more remote systems (Cajolet, col. 9 lines 63-64, list of assistant computers, obviously containing their addresses), and transmitting transmits at least a portion of the message to a plurality of the remote systems based on the distribution list (Cajolet, col. 6 I. 41-47, transmitting requests to assist in processing tasks to multiple computers)

Cajolet-Johnson-Slater-ON does not explicitly disclose providing a message to a router that, responsive to the message, transmits at least a portion of the message to a plurality of the remote systems based on the distribution list.

However, Harper discloses a gateway in between a task dispatcher and remote systems, capable of transferring information between the task dispatcher and the remote systems (fig. 2, a gateway connected to a dispatcher for transmitting information, gateway and dispatcher can be one entity)

Therefore, it would have been obvious for one skilled in the art at the time of the invention to combine the teachings of Cajolet-Johnson-Slater-ON and

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Harper to dispatch tasks to multiple servers or assistant computers via a gateway or a router to implement a larger or a WAN distributed system or to provide more scalability and failover capability.

- Claims 8 and 20-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cajolet-Johnson-Slater-ON as applied to claim 1 above, and further in view of Harper and Hinni.
- 40. For claim 8, Cajolet-Johnson-Slater-ON does not explicitly disclose wherein indicating to the two or more remote systems comprises providing a message to a router that, responsive to the message, transmits, at least a portion of the message to a plurality of the remote systems based on the distribution list;

However, Harper discloses the same (fig. 2, a gateway connected to a dispatcher for transmitting task advertisements)

Cajolet-Johnson-Slater-ON-Harper does not disclose wherein the distribution list is a multicast list, and transmitting is via multicast.

However, Hinni discloses the same ([0079] lines 3-5, multicast task request to multiple task handlers)

Therefore, it would have been obvious for one skilled in the art at the time of the invention to combine the teachings of Cajolet-Johnson-Slater-ON, Harper and Hinni to multicast task request to a plurality of computers since multicasting is an efficient method of transmitting same information to multiple receivers (as compared to, e.g., unicasting).

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Claim 20 is rejected for the same rationale as in claim 8.

- 42. For claim 21, Cajolet-Johnson-Slater-ON-Harper-Hinni further discloses the control unit is adapted to indicate a threshold criterion that the two or more remote systems should satisfy and further adapted to receive the at least one response from the two or more remote systems that satisfy the threshold criterion (Cajolet, fig. 8, col. 11 lines 11-60, thresholds that assistant processing computers have to pass in order to satisfy the requirement of the tasks).
- 43. For claim 22, Cajolet-Johnson-Slater-ON-Harper-Hinni further discloses the control unit is adapted to indicate at least one of a minimum processing speed, memory amount, and network speed for the two or more remote systems (Cajolet, fig. 8, col. 11 lines 11-60).
- 44. For claim 23, Cajolet-Johnson-Slater-ON-Harper-Hinni further discloses the control unit is adapted to receive configuration information associated with the two or more remote systems (Cajolet, col. 8 lines 38-40, sending configuration to task dispatcher).
- 45. For claim 24, Cajolet-Johnson-Slater-ON-Harper-Hinni further discloses the control unit is adapted to receive information including at least one of a

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processing speed, memory size, network speed, and load level associated with the two or more remote systems (Cajolet, fig. 8, col. 11 lines 11-60).

- 46. For claim 25, Cajolet-Johnson-Slater-ON-Harper-Hinni further discloses allowing at least one of the remote systems to perform the task comprises allowing the two or more remote systems to perform the task based on a selection scheme (Cajolet, col. 8 lines 43-53, selection of assistant computers).
- 47. For claim 26, Cajolet-Johnson-Slater-ON-Harper-Hinni further discloses the instructions when executed enable the processor to allow that remote system which responds first to perform the task (Slater, [0021] lines 1-7, select a first available call taker workstation to process the next call).
- 48. For claim 27, Cajolet-Johnson-Slater-ON-Harper-Hinni further discloses the selection scheme comprises allowing a remote system to perform the compilation task based on the received configuration information (Cajolet, fig. 6 steps 110-112, assisting computers participate in distributed task processing).

Conclusion

49. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hieu T. Hoang whose telephone number is 571-270-1253. The examiner can normally be reached on Monday-Thursday, 8 a.m.-5 p.m., EST.

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If attempts to reach the examinper by telephone are unsuccessful, the examiner's supervisor, Thu Nguyen can be reached on 571-272-6967. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/Hieu Hoang/

Examiner, Art Unit 2452